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4. The infectibility of *Anopheles punctipennis* was demonstrated in the transmission of the disease through the biting of four mosquitoes which reproduced the infection in three healthy volunteers, living in New Orleans during February, 1916, after incubation periods of 14 and 15 days.

One of these persons had escaped infection four months previously from the bites of more than 200 *Anopheles punctipennis* in two experiments with the subtertian type. From this single instance it is indicated that *Anopheles punctipennis* served as a host of *P. vivax* but not of *P. falciparum*.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended April 15, 1916, was received from Surg. Beggess, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:

Inspections of work under construction.....	206
Basements concreted (square feet 34,920)....	39
Floors concreted (square feet 19,625).....	16
Yards, passageways, etc., (square feet) 13,258	72
Total area of concrete laid (square feet)...	67,803

Class A, B, and C (fireproof buildings):

Inspections made.....	142
Roof and basement ventilators, etc., screened	325
Wire screening used (square feet).....	2,690
Openings around pipes, etc., closed with cement.....	350
Sidewalk lens lights replaced.....	700

Old buildings:

Inspections made.....	424
Wooden floors removed.....	46
Yards and passageways, planking removed.....	12
New foundation walls installed (cubic feet) 5,857	
Concrete floors installed (square feet 38,015).....	24
Basements concreted (square feet 29,430)....	33
Yards and passageways, etc., concreted (square feet 28,858).....	108
Total area concrete laid (square feet).....	96,303
Floors rat proofed with wire cloth (square feet 3,600).....	3
Buildings razed.....	25
New garbage cans stamped approved.....	605
Nuisances abated.....	278

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	16
Reinspections made on vessels.....	18
New rat guards procured.....	2
Defective rat guards repaired.....	4
Rats trapped on wharves and water front....	23
Rats trapped on vessels.....	54
Traps set on wharves and water front.....	114
Traps set on vessels.....	49
Vessels trapped on.....	14

SAN FRANCISCO, CAL.—Continued.

OPERATIONS ON THE WATER FRONT—continued.

Poisons placed on water front (pieces).....	3,600
Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	38,500
Bait used on water front and vessels, bacon (pounds).....	6
Bread used in poisoning water front (loaves).....	9
Poison used on water front (pounds).....	3

RATS COLLECTED AND EXAMINED FOR PLAGUE.

San Francisco:

Collected.....	419
Examined.....	334
Found infected.....	None.

Monterey County:

Collected.....	4
Examined.....	4
Found infected.....	None.

RATS IDENTIFIED.

<i>Mus norvegicus</i>	201
<i>Mus rattus</i>	86
<i>Mus alexandrinus</i>	81
<i>Mus musculus</i>	51

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

County.	Collected.	Examined.	Found infected.
Alameda.....	54	54	None.
Contra Costa.....	634	634	None.
Monterey.....	581	581	4
San Benito.....	186	186	1
Santa Clara.....	28	28	1
Total.....	1,483	1,483	6

Ten rabbits examined from Monterey County. Not infected.

RANCHES INSPECTED AND HUNTED OVER.

Contra Costa County.....	67
Monterey County.....	37
San Benito County.....	30
Alameda County.....	17
Santa Clara County.....	1
Total.....	152

PLAGUE-INFECTED SQUIRRELS.

Monterey County:	
Shot Mar. 30, 1916. Johnson ranch, 12½ miles south of Salinas.....	1

PLAGUE-INFECTED SQUIRRELS—Continued.

Monterey County—Continued.	
Shot Apr. 1, 1916. C. Herbert ranch, Morojoco grant, 7½ miles northeast of Salinas....	2
Shot Apr. 3, 1916. S. Dedini ranch, sec. 18, T. 20 S., R. 9 E., 4½ miles southeast of King City.....	1
San Benito County:	
Shot Apr. 4, 1916. D. J. Watson ranch (Rancho San Justo), T. 13 S., R. 5 E.....	1
Santa Clara County:	
Shot Mar. 29, 1916. Pacheco Cattle Co. property, Bell Station, Pacheco Pass, T. 10 S., R. 7 E.....	1

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	None.....	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	.....do.....	126 rats.
Berkeley.....	Aug. 28, 1907	None.....	.....do.....	None.
Los Angeles.....	Aug. 11, 1908	.....do.....	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ¹	July 12, 1915	287 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	None.....	Mar. 1, 1916	1,598 squirrels.
Fresno.....	None.....	.....do.....	Oct. 27, 1911	1 squirrel.
Merced.....	.....do.....	.....do.....	July 12, 1911	5 squirrels.
Monterey.....	.....do.....	.....do.....	Apr. 3, 1916	27 squirrels.
San Benito.....	June 4, 1913	.....do.....	Apr. 4, 1916	51 squirrels.
San Joaquin.....	Sept. 18, 1911	.....do.....	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	.....do.....	Mar. 29, 1916	26 squirrels.
San Luis Obispo.....	None.....	.....do.....	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	.....do.....	.....do.....	May 17, 1910	3 squirrels.
Stanislaus.....	.....do.....	.....do.....	June 2, 1911	13 squirrels.

¹ Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco Stanislaus, San Benito, Monterey, Santa Clara, Lassen, and Modoc.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following reports of plague eradication at New Orleans were received from Surg. Creel, of the United States Public Health Service, in charge of the work:

WEEK ENDED APRIL 22, 1916.

OUTGOING QUARANTINE.		BUILDINGS RAT PROOFED.	
Vessels fumigated with cyanide gas.....	23	By elevation.....	129
Cyanide used in cyanide-gas fumigation (pounds).....	921	By marginal concrete wall.....	113
Sulphuric acid used in cyanide-gas fumigation (pints).....	1,380	By concrete floor and wall.....	164
Clean bills of health issued.....	39	By minor repairs.....	228
Foul bills of health issued.....		Total buildings rat proofed.....	643
FIELD OPERATIONS.		Concrete laid (square yards).....	22,053
Rodents trapped.....	6,530	Premises, planking, and shed flooring removed.....	124
Premises inspected.....	6,781	Buildings demolished.....	112
Notices served.....	702	Total buildings rat proofed to date (abated).....	112,170
Garbage cans installed.....	11		

LABORATORY OPERATIONS.

Rodents received by species:

Mus rattus.....	133
Mus norvegicus.....	1,223
Mus alexandrinus.....	221
Mus musculus.....	5,203
Wood rats.....	91
Muskrats.....	5
Putrid (included in enumeration of species).....	225
Total rodents received at laboratory.....	6,876

LABORATORY OPERATIONS—continued.

Rodents examined.....	1,995
Number of rats suspected of plague.....	136

PLAGUE RAT.

Case No. 287:

Address, s. s. Trevelyan, from Karachi, India,
and Newcastle, England.

Captured, Apr. 7, 1916.

Diagnosis confirmed, Apr. 22, 1916.

Treatment of ship: Deratization by fumigation.

Plague rats confirmed.....	1
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WEEK ENDED APRIL 29, 1916.

OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	7
Vessels fumigated with cyanide gas.....	13
Sulphur used (pounds).....	430
Cyanide used in cyanide-gas fumigation (pounds).....	912
Sulphuric acid used in cyanide-gas fumigation (pints).....	1,301
Clean bills of health issued.....	38
Foul bills of health issued.....	3

FIELD OPERATIONS.

Rodents trapped.....	8,340
Premises inspected.....	8,352
Notices served.....	697
Garbage cans installed.....	8

BUILDINGS RAT PROOFED.

By elevation.....	261
By marginal concrete wall.....	137
By concrete floor and wall.....	200
By minor repairs.....	383
Total buildings rat proofed.....	981
Concrete laid (square yards).....	7,072
Premises, planking, and shed flooring removed.....	106
Buildings demolished.....	125
Total buildings rat proofed to date (abated).....	113,151

LABORATORY OPERATIONS.

Rodents received by species:

Mus rattus.....	176
Mus norvegicus.....	930
Mus alexandrinus.....	160
Mus musculus.....	6,432
Wood rats.....	87
Musk rats.....	2
Putrid (included in enumeration of species).....	135
Total rodents received at laboratory.....	7,787
Rodents examined.....	1,736
Number of rats suspected of plague.....	126
Plague rats confirmed.....	None.

PLAGUE STATUS TO APRIL 29, 1916.

Last case of human plague, Sept. 8, 1915.

Last case of rodent plague, Apr. 7, 1916.

Total number of rodents captured to Apr. 29. 697,379

Total number of rodents examined to Apr.

29..... 349,500

Total cases of rodent plague to Apr. 29, by species:

Mus musculus.....	6
Mus rattus.....	18
Mus alexandrinus.....	13
Mus norvegicus.....	250
Total rodent cases to Apr. 29, 1916.....	287

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended April 22, 1916, was received from Surg. Lloyd of the United States Public Health Service, in charge of the work:

RAT PROOFING.

New buildings inspected.....	15
New buildings reinspected.....	60
Basements concreted, new buildings (17,280 square feet).....	20
Floors concreted, new buildings (22,775 square feet).....	13
Yards, etc., concreted, new buildings (4,280 square feet).....	4
Sidewalks concreted (square feet).....	12,775
Total concrete laid, new structures (square feet).....	57,110

RAT PROOFING—continued.

New buildings elevated.....	5
New premises rat proofed, concrete.....	33
Old buildings inspected.....	4
Premises rat proofed, concrete, old buildings.....	4
Floors concreted, old buildings (6,725 square feet).....	4
Wooden floors removed, old buildings.....	4
Buildings razed.....	3

¹ Indicates the number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

LABORATORY AND RODENT OPERATIONS.	
Dead rodents received.....	13
Rodents trapped and killed.....	333
Rodents recovered after fumigation.....	47
Total.....	393
Rodents examined for plague infection.....	218
Poison distributed, pounds.....	15
Bodies examined for plague infection.....	4
CLASSIFICATION OF RODENTS.	
Mus rattus.....	57
Mus alexandrinus.....	80
Mus norvegicus.....	181
Mus musculus.....	75
WATER FRONT.	
Vessels inspected and histories recorded.....	16
Vessels fumigated.....	3
Sulphur used, pounds.....	3,600
New rat guards installed.....	12
Defective rat guards repaired.....	10
Fumigation certificates issued.....	3
Port sanitary statements issued.....	36
The usual day and night patrol was maintained to enforce rat guarding and fending.	
MISCELLANEOUS WORK.	
Rat-proofing notices sent to contractors, new buildings.....	25

MISCELLANEOUS WORK—continued.	
Letters sent in re rat complaints.....	7
Inspection of medicine chests, fishing vessels.....	8
RODENTS EXAMINED IN EVERETT.	
Mus norvegicus trapped.....	64
Mus norvegicus found dead.....	2
Mus musculus trapped.....	2
Total.....	68
Rodents examined for plague infection.....	61
RAT-PROOFING OPERATIONS IN EVERETT.	
New buildings inspected.....	6
New buildings, concrete foundations.....	6
New buildings, basements concreted (1,125 square feet).....	2
New buildings, floors concreted (6,000 square feet).....	1
New buildings, yards concreted (532 square feet).....	3
Total concrete laid, new buildings, 7,657 square feet.	
RODENTS EXAMINED IN TACOMA.	
Mus norvegicus trapped.....	87
Mus norvegicus found dead.....	5
Mus rattus trapped.....	2
Total.....	94
Rodents examined for plague infection.....	94

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED APRIL 15, 1916.

Total rats and mongoose taken.....	413	Average number of traps set daily.....	984
Rats trapped.....	410	Cost per rat destroyed.....	18½ cents.
Mongoose trapped.....	3	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Examined microscopically.....	342	Last case human plague, Honolulu, July 12, 1910.	
Showing plague infection.....	None.	Last case rat plague Paauhau, Hawaii, Jan. 18, 1916.	
Classification of rats trapped:		Last case human plague, Paauhau plantation, Hawaii, Dec. 16, 1915.	
Mus alexandrinus.....	177		
Mus musculus.....	117		
Mus norvegicus.....	96		
Mus rattus.....	20		

Hilo.

WEEK ENDED APRIL 8, 1916.

Rats and mongoose taken.....	2,633	Classification of rats trapped and found dead:	
Rats trapped.....	2,594	Mus norvegicus.....	473
Rats found dead.....	4	Mus alexandrinus.....	392
Mongoose taken.....	35	Mus rattus.....	685
Rats and mongoose examined macroscopically.....	2,633	Mus musculus.....	1,048
Rats and mongoose examined microscopically.....	2	Last case of rat plague, Paauhau Sugar Co., Jan. 18, 1916.	
Rats and mongoose plague infected.....	None.	Last case of human plague, Paauhau Sugar Co. Dec. 16, 1915.	

PORTO RICO--PLAGUE PREVENTION.

The following table shows the number of rats and mice examined in Porto Rico for plague infection during the two weeks ended April 21, 1916. No plague infection was found:

Place.	Rats.	Mice.
San Juan.....	123	31
Puerta de Tierra.....	117	1
Santurce.....	194	8